### PATENT COOPERATION TREATY.

·	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202
Date of mailing (day/month/year)	ETATS-UNIS D'AMERIQUE
09 July 2001 (09.07.01)	in its capacity as elected Office
International application No. PCT/EP00/09346	Applicant's or agent's file reference 4-31153A
International filing date (day/month/year)	Priority date (day/month/year)
25 September 2000 (25.09.00)	27 September 1999 (27.09.99)
Applicant ACEMOGLU, Murat et al	
1. The designated Office is hereby notified of its election made    X   in the demand filed with the International Preliminary   17   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   17   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   17   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the International Preliminary   18   April 2001 (1)   in a notice effecting later election filed with the Intern	Examining Authority on:  17.04.01)  Itional Bureau on:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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# **PCT**

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's	or agent's file reference	T	San No	difference of Transmitted of International
4-31153	-	FOR FURTHER AC	TIAN	tification of Transmittal of International nary Examination Report (Form PCT/IPEA/416)
Internation	al application No.	International filing date (	day/month/year)	Priority date (day/month/year)
PCT/EP	00/09346	25/09/2000		27/09/1999
Internation C07C22	al Patent Classification (IPC) or na 9/00	tional classification and IPC	3	
Applicant				
NOVAR	TIS AG	·		
and is	s transmitted to the applicant a	according to Article 36.		nternational Preliminary Examining Authority
2. This	REPORT consists of a total of	9 sheets, including this	cover sheet.	
(:	peen amended and are the bas see Rule 70.16 and Section 60	sis for this report and/or 07 of the Administrative	sheets containing	tion, claims and/or drawings which have rectifications made before this Authority r the PCT).
These	e annexes consist of a total of	2 sheets.		
3. This r . I II III V	<ul><li>Lack of unity of invention</li><li>Reasoned statement unit</li></ul>	pinion with regard to no on nder Article 35(2) with re	velty, inventive st	ep and industrial applicability  nventive step or industrial applicability;
\/I		ons suporting such state	ment	
VI VII	☐ Certain documents cite ☐ Certain defects in the ir			
VIII		n the international applic	eation	
Date of sub	mission of the demand		Date of completion	of this report
17/04/20	01		08.04.2002	
	mailing address of the international examining authority:		Authorized officer	STATE OF SMICH CARE
<u>@</u> )	European Patent Office - P.B. 58 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 69		Pauwels, G	

Telephone No. +31 70 340 2379





I. Bas	is o	f the	rep	rt
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ŀ.	the and	receiving Office in	response to an invitation under this report since they do not	er Article 14 are	referred to in this i	report as "originally filed"
	1-45	5	as originally filed			•
	Clai	ims, No.:				
	1-6,	7 (part)	as originally filed			
	7 (p	art)	as received on	05/02/2002	with letter of	01/02/2002
2.			guage, all the elements marke international application was t			
	The	se elements were	available or fumished to this A	Authority in the f	ollowing language:	, which is:
		the language of a	translation furnished for the p	urposes of the i	nternational search	n (under Rule 23.1(b)).
		the language of pi	ublication of the international a	application (und	er Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished for the p	ourposes of inter	national preliminar	y examination (under Rule
3.			cleotide and/or amino acid s ry examination was carried ou			
		contained in the ir	nternational application in writt	ten form.		
		filed together with	the international application in	n computer read	dable form.	
		furnished subsequ	ently to this Authority in writte	en form.		
		furnished subsequ	ently to this Authority in comp	outer readable f	orm.	
			t the subsequently furnished pplication as filed has been fu	•	e listing does not g	go beyond the disclosure in
		The statement that listing has been full	it the information recorded in o mished.	computer reada	ble form is identica	ll to the written sequence
4.	The	amendments have	e resulted in the cancellation of	of:		
		the description,	pages:	• 40		
		the claims,	Nos.:			
		the drawings,	sheets:			



. !	5. l					(some of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
			(Any replacement shee report.)	et contail	ning such	ch amendments must be referred to under item 1 and annexed to this
•	S. /	Add	litional observations, if n	ecessar	y:	
						•
1	V. I	Lac	k of unity of invention			
	1. I	n re	esponse to the invitation	to restr	ict or pay	y additional fees the applicant has:
	[		restricted the claims.			
	[		paid additional fees.			
	ı	Ø	paid additional fees und	der prote	est.	
	[		neither restricted nor pa	aid addit	ional fee	es.
2	2. [					ent of unity of invention is not complied and chose, according to Rule ct or pay additional fees.
3	3. 1	This	Authority considers tha	t the rec	quiremen	nt of unity of invention in accordance with Rules 13.1, 13.2 and 13.3
	[		complied with.			
	[		not complied with for th	e follow	ing reaso	ons:
4			sequently, the following mination in establishing			ernational application were the subject of international preliminary
	0	×	all parts.			
	[	<b></b>	the parts relating to clai	ms Nos		
١			soned statement unde tions and explanations			with regard to novelty, inventive step or industrial applicability; uch statement
1	۱. ٤	Stat	ement			
	١	VoV	elty (N)	Yes: No:	Claims Claims	
	li	nve	ntive step (IS)	Yes: No:	Claims Claims	
	h	ndu	strial applicability (IA)	Yes:	Claims	s 1-7

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/09346

No:

Claims

2. Citations and explanations see separate sheet



Reference is made to the following documents:

D1: WO-A-9911605

D2: J. Am. Chem. Soc. (1992), 114(13), 5054-67

D3: ANGEWANDTE CHEMIE. INTERNATIONAL EDITION., vol. 37, 1998,

pages 2046-2067,

D4: The Merck Index 12th Edition 1996, page ONR-85; paragraph 353

#### Re Item IV

The present application concerns processes for the production of 2-phenylamino-5-alkylphenyl acetic acids represented by formula I of claim 1 via a 1-phenyl-5alkyl indol-2-one, represented by formula II of claim 1.

For the purposes of unity, a single general inventive concept is required. This means that the broadest possible problem to be solved has to be drawn up (i.e. to cover all claimed possibilities). Thus, by definition, the provisos may not be taken into account when determining the presence or lack of unity, since the special technical feature must define a contribution over these provisos as well.

Several different synthetic pathways leading to the intermediate compound II are disclosed. Some of them use a 4-alkyl diphenylamine, represented by formula VIII of claim 3, as a further precursor. In another set of pathways a 1-phenyl-5alkyl- 1,4,5,6-tetrahydro indol-2-one is involved.

The document D2, discloses a compound of formula VIII (see page 5056: formula 17; page 5067, right hand column, first paragraph). The document D1 discloses (see example 38 and claim 9(c)): a process for the preparation of a compound of Formula I by cleaving a lactam of Formula II, wherein in both formulae R represents ethyl, R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub> and R<sub>5</sub> all represent fluoro and R<sub>3</sub> is hydrogen. The subject-matter of claim 1 therefore differs from this known process in that: the known process is excluded by means of a disclaimer.

The problem to be solved by the present application has been regarded as to provide further processes for the preparation of 2-phenylamino-5-alkylphenyl

### EXAMINATION REPORT - SEPARATE SHEET

acetic acids represented by formula I of claim 1.

With respect to unity of intermediates and final products the "Administrative Instructions under the PCT" Annex B, Part 1, g) v) stipulate that "The intermediate and final products shall not be separated, in the process leading from one to the other, by an intermediate which is not new."

Since intermediate VIII is known and a known intermediate of formula II has been excluded by means of a disclaimer, the requirement of the Administrative Instructions under the PCT, mentioned here above is not met. Since there are no apparent other features which may be regarded as a special technical feature, which could link the different inventions of the application, the present application lacks of unity of invention contrary to Rule 13.1 PCT.

Additionally, the "Administrative Instructions under the PCT" Annex B, Part 1, g) ii) B) require that "the intermediate and final products are technically interrelated, this meaning that the final product is manufactured directly from the intermediate or is separated from it by a small number of intermediates all containing the same essential structural element."

Compounds IX, X and XIII undoubtedly comprise some structural elements of the end product II such as the group R in position 4 of a N-atom and the groups R<sub>1</sub> - R<sub>5</sub> on a phenyl. The further intermediates which lead to the end product all contain these structural elements. Nevertheless compounds IX and XIII are structurally considerably different from II and all three are separated from II by at least three further intermediates: compounds VIII, VII and II.

In the opinion of the ISA, three further intermediates is not a small number in the sense of the Administrative Instructions under the PCT Annex B, Part 1, g) ii) B).

Consequently compounds IX, X and XIII are not technically sufficient closely linked to the end product as to form a single general inventive concept.

2 Claim 2 consists of a large number of independent sub-claims with no clear explicit technical relation among them. They all appear to concern intermediate

steps in the preparation of known final compounds. These known final compounds seem to be the only technical feature, which links the subclaims. Because the final compounds are known the subject matters of the sub-claims of claim 2 lack a special technical feature which makes a contribution over the prior art. Hence the group of inventions of claim 2 are not so linked as to form a single inventive concept contrary to Rule 13.1 PCT.

- 3 The separate groups of invention are:
- Process for the production of a compound of formula I from compound II (claim 1); processes for the production of compounds of formula III, VII and VIII (claim 2 a, b, c, d; claim 7 a, b, c, d). Claims: 1-7 all partially.
- 3.2 Process for the production of a compound of formula VIII by reaction of a compound XI with p-toluidine or 4-ethyl-aniline; or by reaction of a compound IV with 4-bromotoluene or 4-bromoethyl benzene (claim 2 f, g). Claims: 1-7 all partially.
- Process for the production of a compound of formula VIII from or via compounds IX, X or XII (claim 2 e, h, i, j, k; claim 7 e, f). Claims: 1-7 all partially.
- 3.4 Process for the production of a compound of formula VIII from or via compound XIII (claim 2 I, m, n; claim 7 g). Claims: 1-7 all partially.

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Novelty
- 1.1 Claim 1: The process of example 38 of D1 has been disclaimed. The documents D2 to D4 don't concern a process for the production of a compound of Formula I of claim 1.

- 1.2 Claim 2: The processes b), d), f) are different from the processes disclosed on pages 34 and 35 of document D1 because of the disclaimer in claim 1. The documents D1, D2, D3 or D4 don't disclose processes for the preparation of compounds of formula II, III, VII, VIII, IX, X or XIII.
- 1.3 Claim 3: The process is different from the process disclosed on pages 34 and 35 of document D1 because of the disclaimer in claim 1.
- 1.4 Claims 4, 5, 6, 7: The compounds are different from the compound disclosed in D1 because of the substituents R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>.
- 1.5 The subject matter of claims 1-7 is new (Art. 33(2) PCT).
- 2 Inventive step
- 2.1 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (see example 38 and claim 9(c)): a process for the preparation of a compound of Formula I by cleaving a lactam of Formula II, wherein in both formulae R represents ethyl, R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub> and R<sub>5</sub> all represent fluoro and R<sub>3</sub> is hydrogen. The subject-matter of claim 1 therefore differs from this known process in that: the known process is excluded by means of a disclaimer.
- 2.2 The problem to be solved by the present invention may therefore be regarded as to provide an alternative process for the preparation of a compound of Formula I by cleaving a lactam of Formula II. The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.
  - A disclaimer is, by way of exception, allowable to restore the novelty of a otherwise inventive claim, it cannot impart inventive step to a teaching which is obvious.
- 2.3 Dependent claims 4 and 5 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows: The subject-matter of claims 4 and 5 consists in the selection of the compounds described in document D1. Such a selection can only be regarded as inventive, if the compounds

present unexpected effects or properties in relation to the rest of the range. However, no such effects or properties are indicated in the application. Hence, no inventive step is present in the subject-matter of claims 4 and 5.

2.4 The apparently mutually unrelated processes of the independent claim 2 are usual processes known for the preparation of analogous compounds. For example: the process of claim 2(e) is generally known from document D4; the process of claim 2(f) and 2(g) is generally known from document D3 (see page 2051, last paragraph - page 2051, first paragraph). An inventive step could only be recognized for each of the subclaims if they would be integrated in a new and inventive overall process.

# (19) World Intellectual Property Organization International Bureau



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## (43) International Publication Date 5 April 2001 (05.04.2001)

#### **PCT**

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(21) International Application Number: PCT/EP00/09346

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English

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9922830.6

27 September 1999 (27.09.1999) GB

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(74) Agent: BECKER, Konrad: Novartis AG, Corporate Intellectual Property. Patent & Trademark Department, CH-4002 Basel (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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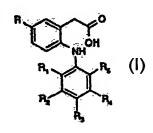
#### Published:

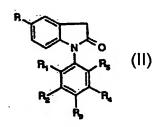
with international search report

(88) Date of publication of the international search report: 10 January 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PHENYLACETIC ACID DERIVATIVES





(57) Abstract: A process for the production of a compound of formula (I), or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable prodrug ester thereof, comprising cleaving a lactam of formula (II) wherein the symbols are as defined, with a base; and precursors therefor and processes for the preparation of the precursors. The compounds of formula (I) are pharmaceutically active compounds which are selective inhibitors of Cyclooxygenase (II).

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07C229/42 C07C227/22

C07C235/16

C07C211/56

C07D209/34 C07C211/52

C07C233/15

C07C235/24

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) CO7C

IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BEILSTEIN Data, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	WO 99 11605 A (NOVARTIS AG, SWITZ.;NOVARTIS-ERFINDUNGEN VERWALTUNGS-GESELLSCHAFT M.B.) 11 March 1999 (1999-03-11) claims 1,9	1-7
X	POE, RUSSELL ET AL: "Chemistry and kinetics of singlet pentafluorophenylnitrene" J. AM. CHEM. SOC. (1992), 114(13), 5054-67, XP002161266 page 5056; figure 17 page 5067, right-hand column, paragraph 1  -/	2,7

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the International filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
15 August 2001	0 3. 09. 01
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3018	Authorized officer Pauwels, G

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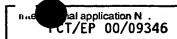
### INTERNATIONAL SEARCH REPORT

PCT/5, 00/09346

		PC1/E-00/09346
.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	J.F. HARTWIG: "Transition metal catalyzed synthesis of arylamines and aryl ethers from aryl halides and triflates: scope and mechanism"  ANGEWANDTE CHEMIE. INTERNATIONAL EDITION., vol. 37, 1998, pages 2046-2067, XP002174970  VERLAG CHEMIE. WEINHEIM., DE ISSN: 0570-0833  page 2051, last paragraph -page 2051, paragraph 1	1-5
<b>A</b>	"The Merck Index 12th Edition" 1996 , MERCK RESEARCH LABORATORIES , WHITEHOUSE STATION NJ XP002174971 page ONR-85, paragraph 353	1-5

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Box I Obs rvati ns where certain claims were found unsearchable (Continuation fitem 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As a result of the prior review under R. 40.2(e) PCT, no additional fees are to be refunded.
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark in Protest  The additional search fees were accompanied by thi applicant' protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7 all partially

Process for the production of a compound of formula I from compound II (claim 1); processes for the production of compounds of formula III, VII and VIII (claim 2 a, b, c, d; claim 7 a, b, c, d)

2. Claims: 1-7 all partially

Process for the production of a compound of formula VIII by reaction of a compound XI with p-toluidine or 4-ethyl-aniline; or by reaction of a compound IV with 4-bromotoluene or 4-bromoethyl benzene (claim 2 f, g)

3. Claims: 1-7 all partially

Process for the production of a compound of formula VIII from or via compounds IX, X or XII (claim 2 e, h, i, j, k; claim 7 e, f)

4. Claims: 1-7 all partially

Process for the production of a compound of formula VIII from or via compound XIII (claim 2 1, m, n; claim 7 g)

### INTERNATIONAL SEARCH REPORT

material patent family members

PCT/Er 00/09346

Patent document cited in search repor	t	Publication date	1	Patent family member(s)	Publication date
WO 9911605	Α	11-03-1999	AU	9534098 A	22-03-1999
			BR	9812010 A	12-12-2000
			CN	1268112 T	27-09-2000
			EP	1007505 A	14-06-2000
			NO	20000943 A	25-02-2000
			PL	338357 A	23-10-2000
			SK	2472000 A	12-09-2000
			TR	200000447 T	21-07-2000
			ZA	9807785 A	01-03-1999
			HU	0002514 A	28-12-2000

$$\begin{array}{c|c} R & CI \\ & & \\ VII & R_1 \\ & & \\ R_2 & & \\ & & \\ R_3 & & \\ \end{array}$$

d) a compound of formula VIII

e) a compound of formula IX

$$\begin{array}{c|c} & IX & \\ & & \\ R_4 & \\ R_3 & \\ & & \\ R_1 & \\ \end{array}$$

f) a compound of formula X

$$X \xrightarrow{R_1} \xrightarrow{N} C$$

$$X \xrightarrow{R_2} \xrightarrow{R_3} R_4$$

or

g) a compound of formula XIII

$$\begin{array}{c|c} R & & \\ \hline & N & \\ XIII & R_1 & \\ R_2 & & \\ \hline & R_3 & \\ \end{array}$$

wherein the symbols are as defined in claim 1.